

Appendix table 5-12.

Distribution of Federal agency academic research obligations, by field: FY 1999
(Percentages)

Field	National Science Foundation	National Aeronautics and Space Administration	Department of Defense	Department of Energy	Department of Health and Human Services	Department of Agriculture
Total S&E	100.0	100.0	100.0	100.0	100.0	100.0
Total sciences	81.6	83.3	59.8	87.9	99.3	96.6
Physical sciences	21.1	41.9	10.5	58.9	1.5	4.7
Astronomy	2.0	20.7	0.2	0.0	0.0	0.0
Chemistry	6.9	2.1	3.7	9.1	1.4	4.6
Physics	8.1	15.7	6.0	49.7	0.1	0.0
Other	4.1	3.4	0.6	0.1	0.0	0.0
Mathematics	4.1	0.2	2.1	2.5	0.1	0.1
Computer sciences	13.4	3.8	20.6	0.6	0.2	0.0
Environmental sciences	16.1	24.6	8.9	12.1	0.3	0.4
Atmospheric sciences	3.6	12.2	1.4	3.8	0.0	0.4
Earth sciences	4.3	3.3	0.2	5.0	0.0	0.0
Ocean sciences	7.7	1.1	7.0	0.5	0.0	0.0
Other	0.5	7.9	0.2	2.8	0.3	0.0
Life sciences	17.6	7.6	15.7	13.2	88.9	81.6
Agricultural sciences	0.0	0.1	0.0	0.0	0.0	42.0
Biology (excluding environmental)	12.9	3.2	6.3	9.1	47.8	19.7
Environmental biology	4.7	0.2	0.8	0.0	0.0	18.3
Medical sciences	0.0	0.7	7.0	4.1	38.3	1.7
Other	0.0	3.5	1.5	0.0	2.8	0.0
Psychology	0.2	1.0	0.3	0.0	3.9	0.0
Biological aspects	0.0	0.0	0.2	0.0	0.2	0.0
Social aspects	0.2	0.3	0.0	0.0	0.1	0.0
Other	0.0	0.7	0.1	0.0	3.7	0.0
Social sciences	4.6	0.0	0.0	0.0	1.1	9.9
Anthropology	0.5	0.0	0.0	0.0	0.0	0.0
Economics	0.6	0.0	0.0	0.0	0.0	7.9
Political science	0.3	0.0	0.0	0.0	0.0	0.0
Sociology	0.2	0.0	0.0	0.0	0.0	2.0
Other	3.0	0.0	0.0	0.0	1.1	0.0
Other sciences	4.5	4.0	1.7	0.5	3.3	0.0
Total engineering	18.4	16.7	40.2	12.1	0.7	3.4
Aeronautical	0.0	5.3	3.3	0.0	0.0	0.0
Astronautical	0.0	5.3	0.1	0.0	0.0	0.0
Chemical	2.0	0.2	1.3	3.3	0.0	0.1
Civil	1.8	0.0	0.2	0.8	0.0	0.0
Electrical	2.2	1.2	13.6	0.5	0.0	0.0
Mechanical	0.3	1.4	5.2	1.6	0.0	0.0
Materials	5.4	2.1	9.9	2.9	0.0	0.0
Other	6.6	1.2	6.6	2.9	0.7	3.3

NOTES: Academic research includes both basic and applied research. The six agencies shown are the only ones that report their research obligations to academia by S&E field; they represent approximately 97 percent of academic research obligations.

SOURCES: National Science Foundation, Division of Science Resources Studies (NSF/SRS), *Federal Funds for Research and Development: Fiscal Years 1999, 2000, and 2001*, Detailed Statistical Tables, Vol. 49, NSF 01-328 (Arlington, VA, 2001); and NSF, annual series.

See figure 5-12 in Volume 1.

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